

FIG. 1

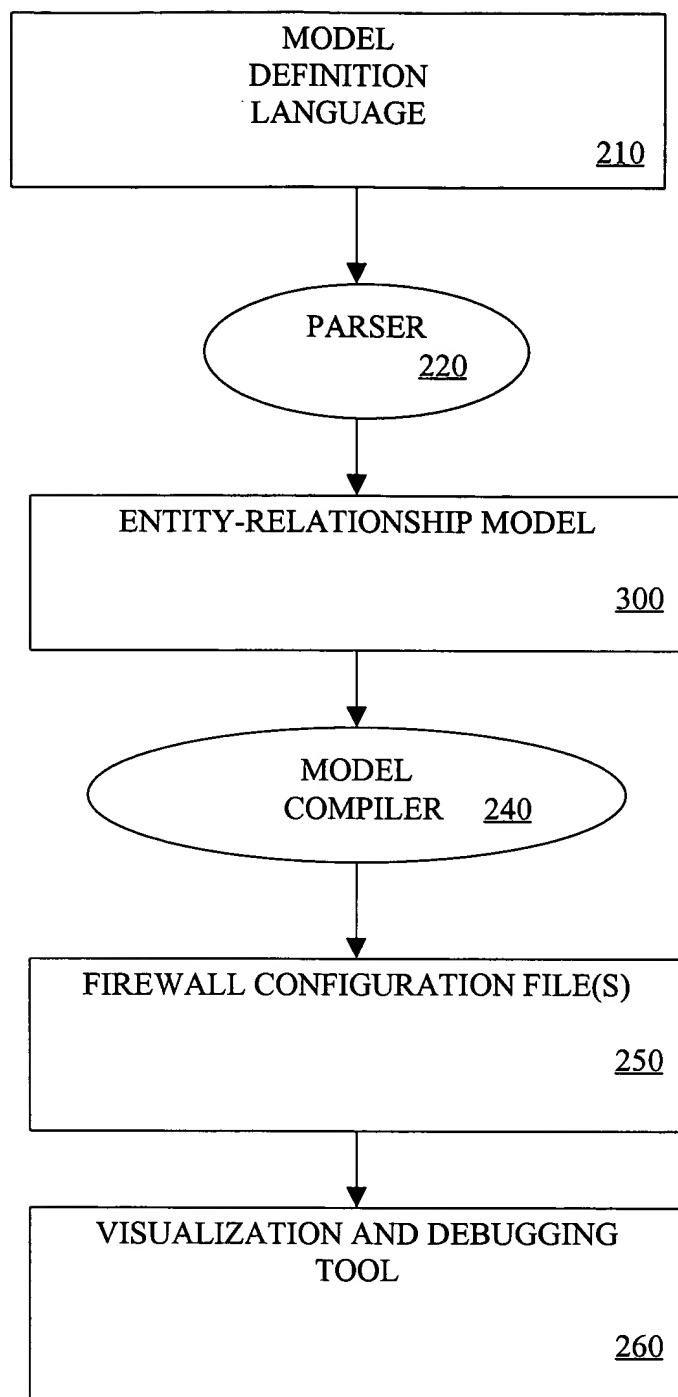


FIG. 2

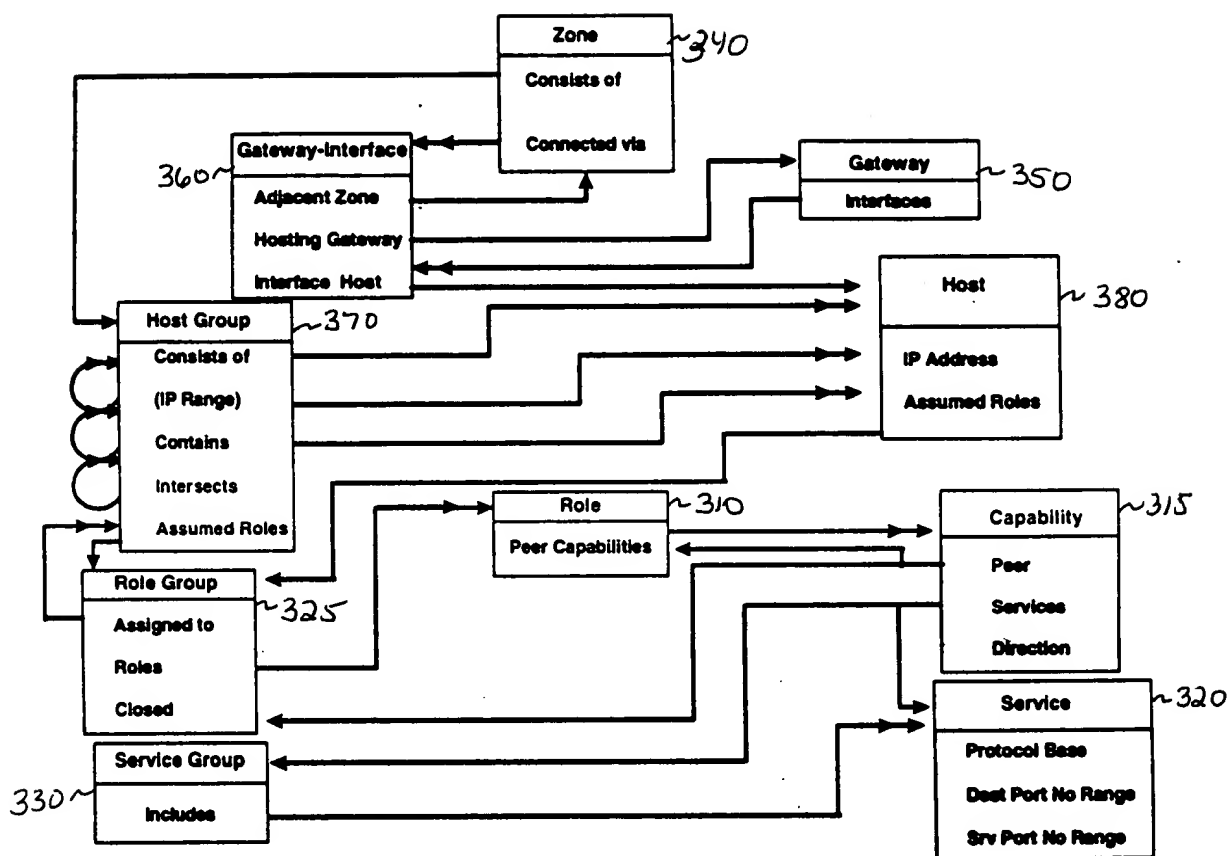


FIG. 3

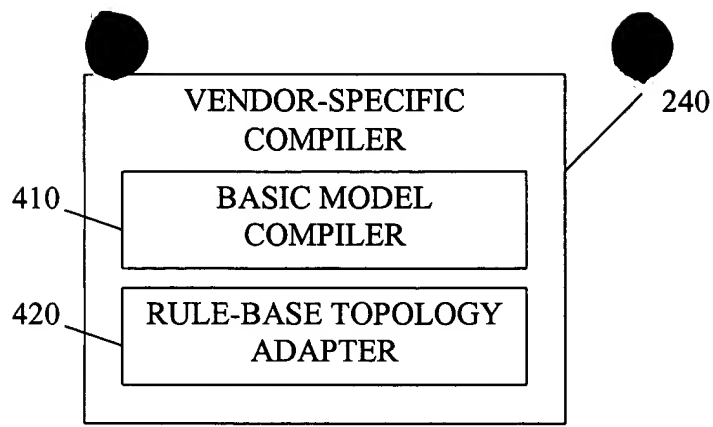


FIG. 4

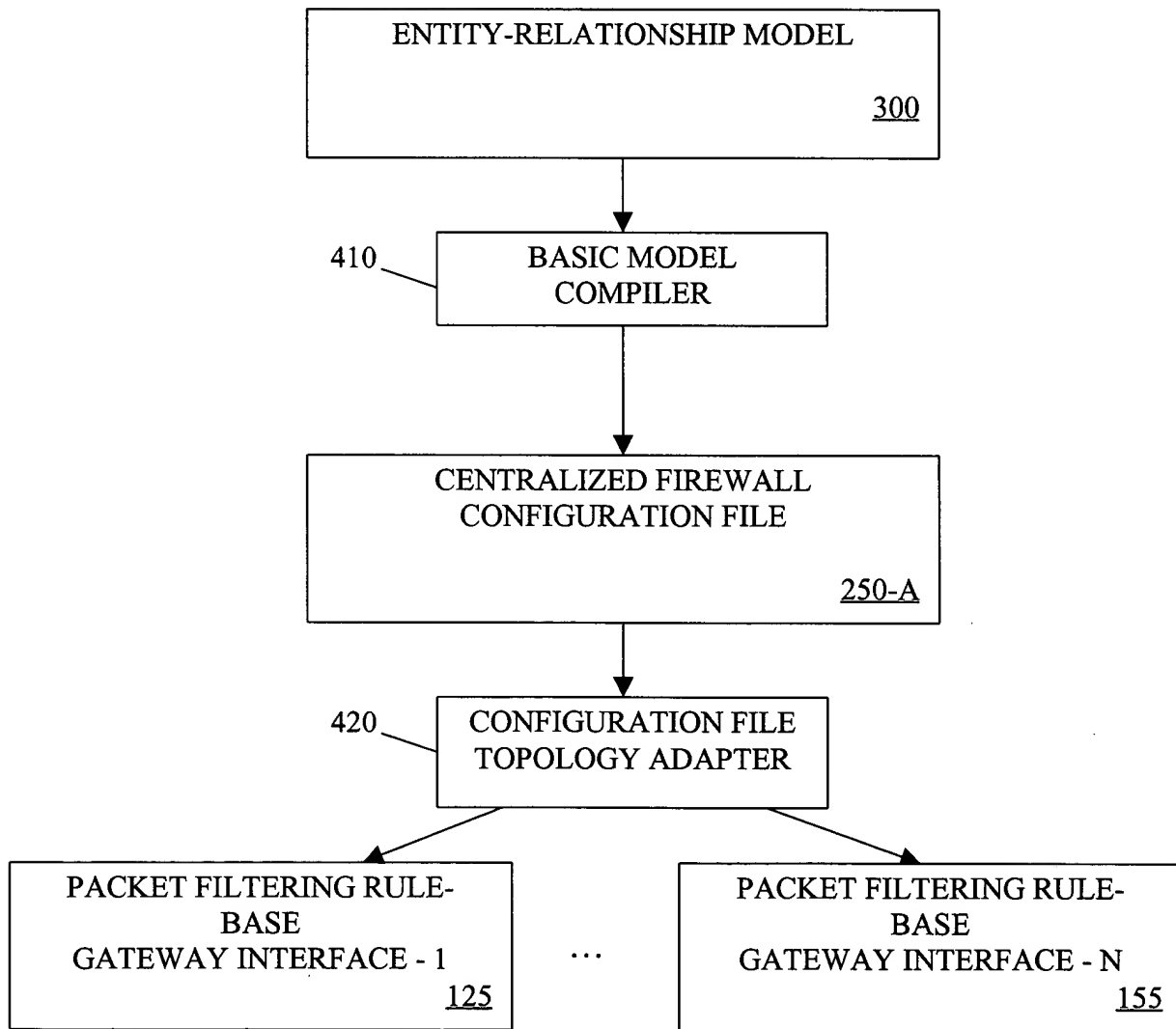
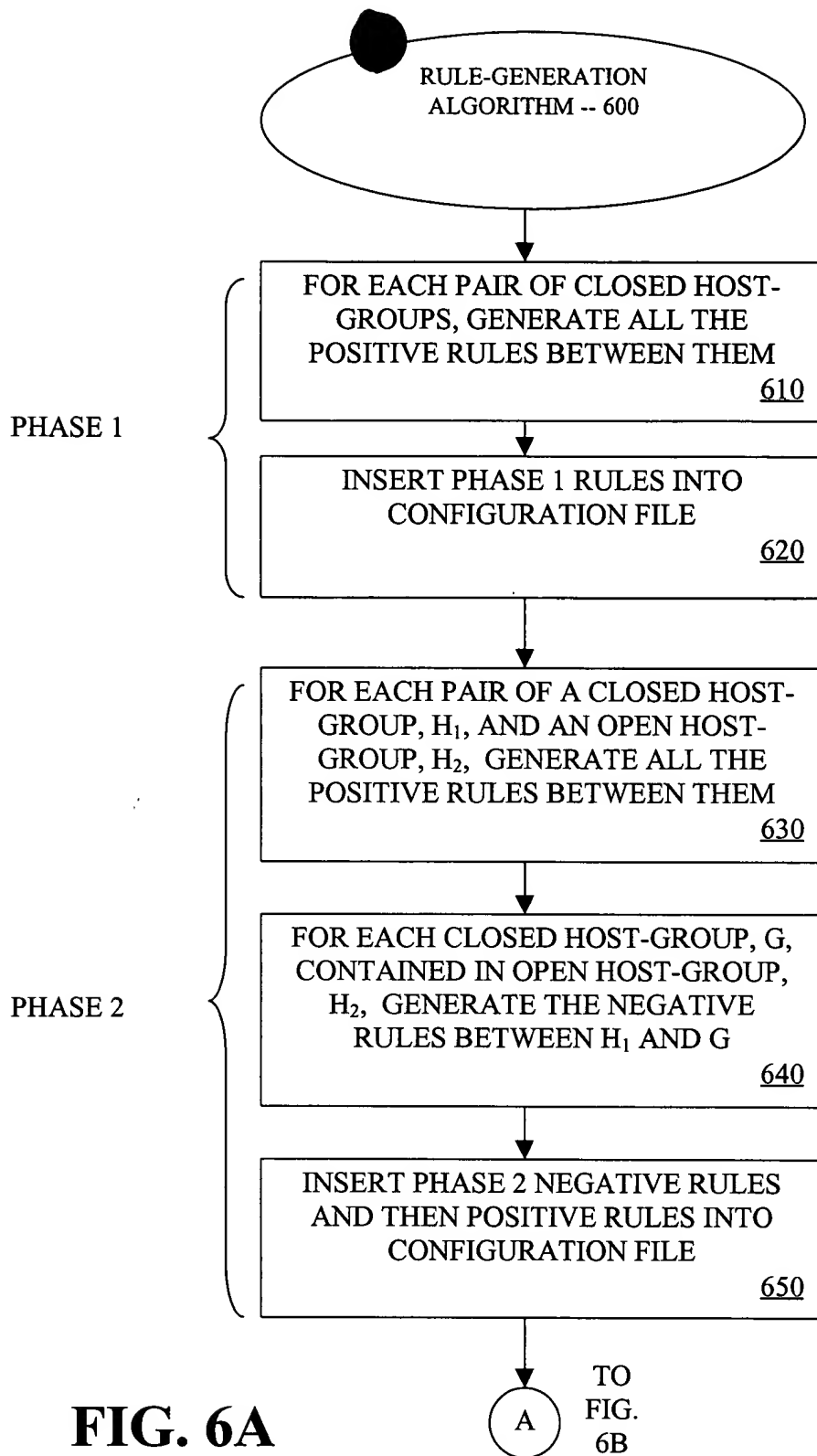


FIG. 5



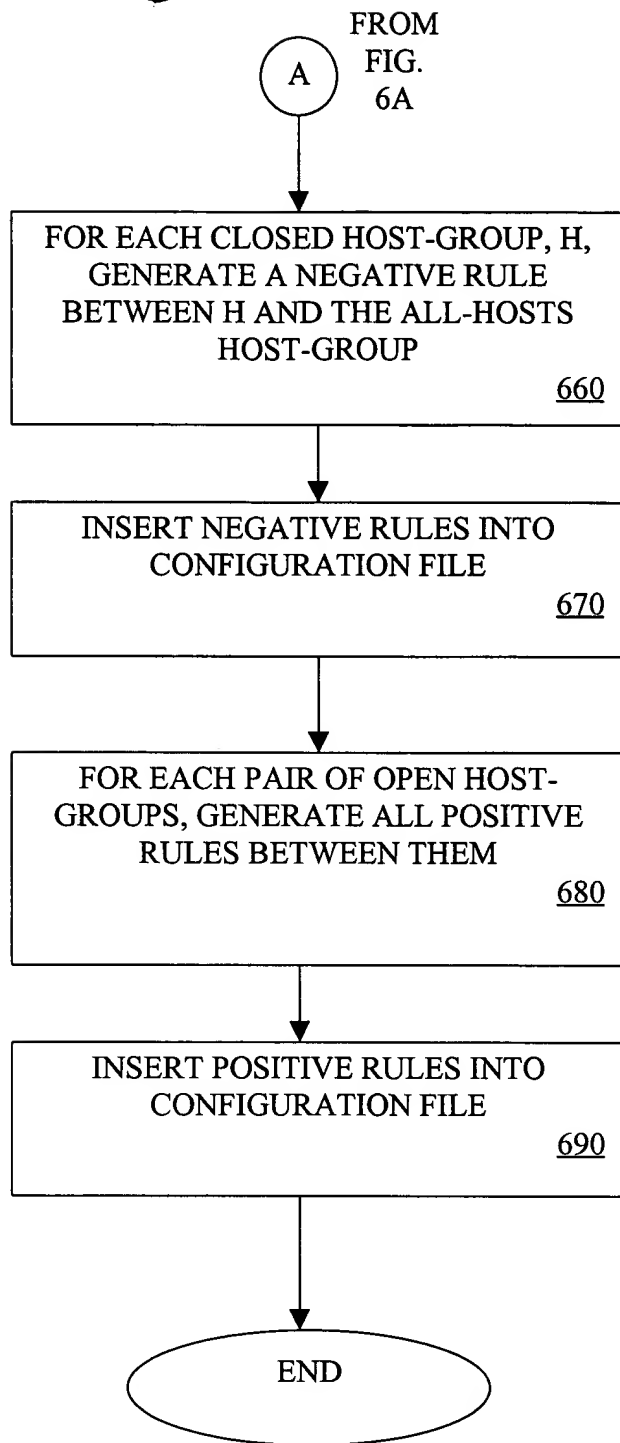


FIG. 6B

for each role r in the role-group assigned to H_1 :

for each statement in the form: $\{ r \ \$ \ R : s \}$

/* where r is a role, $\$$ indicates the direction, R is a role-group and s is a service */

if H_2 is closed: /* create a rule if H_2 has a role, r */

if the role-group assigned to H_2 contains a role in R ,
then

create a positive rule between H_1 and H_2 with
service= s

otherwise, for all host-groups G that contain H_2 :

if the role-group assigned to G contains a role in R

create positive rule between H_1 and H_2 with
service= s

FIG. 7

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Replicate the centralized configuration file to every gateway
interface

for each gateway interface

for each rule in the configuration file

if the source is in the adjacent zone

set direction to OUT

else if the destination is in the adjacent zone

set direction to IN

else set direction to BOTH

FIG. 8

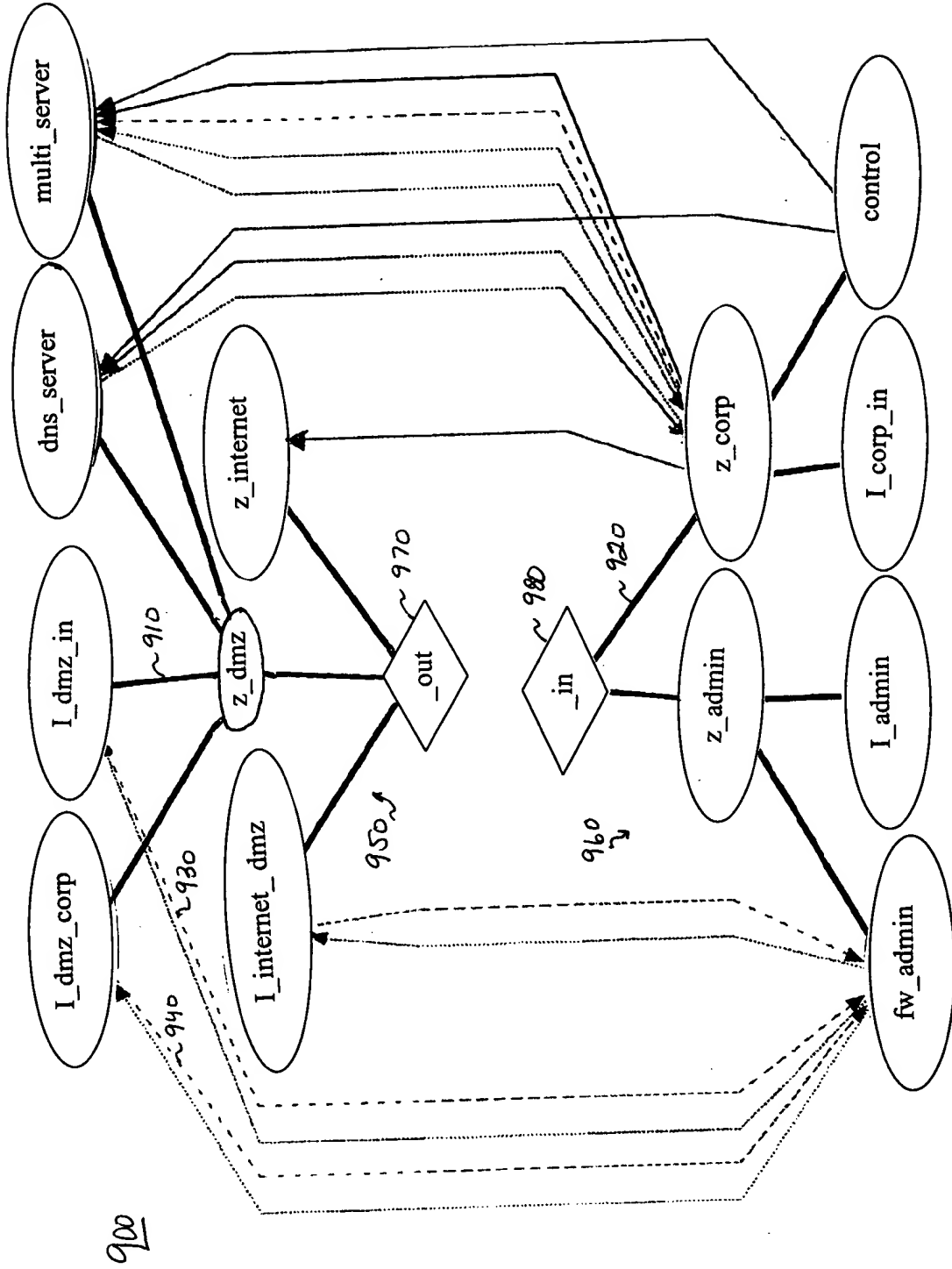


FIG. 9